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1 [Protecting representation with effect encapsulation](#)



Yi Lu, John Potter

 January 2006 POPL '06: Conference record of the 33rd ACM SIGPLAN-SIGACT
 symposium on Principles of programming languages
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Representation exposure is a well-known problem in the object-oriented realm. Object encapsulation mechanisms have established a tradition for solving this problem based on a principle of reference containment. This paper proposes a novel type system ...

Keywords: effect systems, object encapsulation, ownership types, representation exposure, types

2 Protecting representation with effect encapsulation



Yi Lu, John Potter

January 2006 ACM SIGPLAN Notices, Volume 41 Issue 1

Publisher: ACM

Full text available: Pdf (312.88 KB)

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3 Ownership confinement ensures representation independence for object-oriented programs



Anindya Banerjee, David A. Naumann

November 2005 Journal of the ACM (JACM), Volume 52 Issue 6

Publisher: ACM

Full text available: Pdf (664.37 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#), [review](#)

Bibliometrics: Downloads (6 Weeks): 10, Downloads (12 Months): 94, Citation Count: 6

Representation independence formally characterizes the encapsulation provided by language constructs for data abstraction and justifies reasoning by simulation. Representation independence has been shown for a variety of languages and constructs but ...

Keyw ords: Alias control, confinement, data refinement, relational parametricity, simulation

4 PolyTOIL: A type-safe polymorphic object-oriented language



Kim B. Bruce, Angela Schuett, Robert van Gent, Adrian Fiech

March 2003 ACM Transactions on Programming Languages and Systems (TOPLAS), Volume 25 Issue 2

Publisher: ACM

Full text available: Pdf (820.12 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 48, Citation Count: 5

PolyTOIL is a new statically typed polymorphic object-oriented programming language that is provably typesafe. By separating the definitions of subtyping and inheritance, providing a name for the type of self, and carefully defining the type-checking ...

Keywords: Matching, hash type


5 A machine-checked model for a Java-like language, virtual machine, and compiler



Gerwin Klein, Tobias Nipkow

July 2006 ACM Transactions on Programming Languages and Systems (TOPLAS), Volume 28 Issue 4

Publisher: ACM

Full text available:  Pdf (2.68 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 18, Downloads (12 Months): 145, Citation Count: 10

We introduce Jinja, a Java-like programming language with a formal semantics designed to exhibit core features of the Java language architecture. Jinja is a compromise between the realism of the language and the tractability and clarity of its formal ...

Keywords: Java, operational semantics, theorem proving


6 A history of Haskell: being lazy with class



Paul Hudak, John Hughes, Simon Peyton Jones, Philip Wadler

June 2007 HOPL III: Proceedings of the third ACM SIGPLAN conference on History of programming languages

Publisher: ACM

Full text available:  Pdf (1.15 MB) Additional Information: [full citation](#), [appendices and supplements](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 75, Downloads (12 Months): 1475, Citation Count: 0

This paper describes the history of Haskell, including its genesis and principles, technical contributions, implementations and tools, and applications and impact.

7 Communications of the ACM: Volume 51 Issue 8



August issue Volume 51 Issue 8
2008

Publisher: ACM

Full text available: Digital Edition , Pdf (6.85 MB)

Additional Information: [full citation](#)

Bibliometrics: Downloads (6 Weeks): 1545, Downloads (12 Months): 1545, Citation Count: 0

8 Component nextgen: a sound and expressive component framework for java



James Sasitorn, Robert Cartwright
October 2007 ACM SIGPLAN Notices, Volume 42 Issue 10

Publisher: ACM

Full text available: Pdf (367.92 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 19, Downloads (12 Months): 149, Citation Count: 0

Developing a general component system for a statically typed, object-oriented language is a challenging design problem for two reasons. First, mutually recursive references across components are common in object-oriented programs-an issue that has proven ...

Keywords: components, custom class loader, first-class generics, java implementation, modules, signatures

9 Component nextgen: a sound and expressive component framework for java



James Sasitorn, Robert Cartwright
October OOPSLA '07: Proceedings of the 22nd annual ACM SIGPLAN conference on 2007 Object oriented programming systems and applications

Publisher: ACM

Full text available: Pdf (367.92 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 19, Downloads (12 Months): 149, Citation Count: 0

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